



Trench Shoring



Safe, strong, efficient
trench shoring systems



Trench Shoring New Zealand shoring systems

KS100 Trench Box & ECK500 Manhole Box

The KS100 is the optimum shoring solution for almost all soil conditions where boxes are usable. 2.5m and 4m long modules from 1.0m to 3.3m wide enable shoring 3.5m deep and up to 4.8m deep in some conditions. The KS100 is the most versatile trench box for pipes and services installations up to 1500mm diameter. Specifically for manholes the ECK500 manhole box units have 600mm returns at each end. The modules are 2.5m long and can be adjusted from a 2m inside width to 3m using standard KS100 spindle assemblies. Base panel heights are 2.4m and extension panels 1.3m, enabling shored depths of 5m.



EGVP Single Slide Rail System

The EGVP is designed for large diameter pipelines and box culverts where extra clearance is required. This system is designed to go to 4m deep using either 3 or 4m KR panels. These panels are interchangeable with the double slide rail system. Base panels are 2.4m deep and extension panels are 1.3m deep. As with the double slide rail system the transverse frame assembly slides up and down, providing up to 3m clearance underneath.



DGVP Double Slide Rail System

This system enables safe and efficient shoring to at least 6m deep and almost any width to suit the application. The double slide rails are connected by a heavy duty frame that slides up and down within the slide rails to give very large clearances. Panels are 4m long and either 1.3m or 2.4m deep. Corner slide rails enable a 4 sided pit configuration.



KKP Sheet Pile Frame & Sheet Piles

Where there are services crossing the trench, which make the use of standard shoring panels difficult, the KKP frame can be installed with either the KS100 system or the double slide rail system. Guide panels are 4m long and 1m deep. 7 x 8mm x 6.5m long sheet piles are installed each side, by pushing them into place as the excavation progresses.



	KS100	ECK 500	EGVP	DGVP	KKP	Sheet Piles
Shoring Module Length	2.5 – 4.0m	2.5m	3m or 4m	3m or 4m	4.1m	6.5m x 8mm
Height of Base Units	2.2m	2.4m	2.4m	2.4m	1.0m	–
Height of Extension Unit	1.3m	1.4m	1.3m	1.3m	–	–
Pipe Clearance under Lower Struts	1.4m	1.5m	3m	up to 5m	up to 5m	–
Assembly Weight	1.3 – 2.4 tonnes	1.3 – 1.9 tonnes	–	–	2.5 tonnes	–
Primary Component Weight	935kg	900kg	445kg	1220kg	–	325kg each

Standards

- Krings shoring systems are certified by TBG in Germany, the organisation of reference for the standardisation of trench shoring in Europe.
- The European standards for shoring form the basis for the Australian Standard AS4744.1
- The KS100 and DGVP system have been independently tested in New Zealand and is certified by a Chartered Professional Engineer to the NZ Dept of Labour OSH Approved Code of Practice for EXCAVATION AND SHAFTS FOR FOUNDATIONS. Loads were referenced from AS4744.1

For further information or advice freephone
0800 502 112 or visit www.humes.co.nz

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